

1. (Cancelled)

2. (Cancelled)

3. (Currently Amended) A concrete recycling machine ~~as recited in claim 2~~, comprising:
a slurry vessel that receives slurry provided from concrete being returned, said slurry vessel having an agitation device;

a motor that drives the agitation device; and

a control system that controls at least one of duration and frequency with which said motor drives the agitation device,

wherein said control system monitors a load on said motor during said driving of the agitation device, and

wherein said control system controls the duration that said motor drives the agitation device based on the load, and wherein the greater the load, the longer the duration that said motor drives the agitation device.

4. (Currently Amended) A concrete recycling machine ~~as recited in claim 2~~,
comprising:

a slurry vessel that receives slurry provided from concrete being returned, said slurry vessel having an agitation device;

a motor that drives the agitation device; and

a control system that controls at least one of duration and frequency with which said motor drives the agitation device,

wherein said control system monitors a load on said motor during said driving of the agitation device, and

wherein said control system controls the frequency with which said motor drives the agitation device based on the load, and wherein the greater the load, the greater the frequency with which said motor drives the agitation device.

5. (Currently Amended) A concrete recycling machine as recited in ~~claim 2~~ claim 4, wherein the agitation device is a rotatable agitation device.

6. (Cancelled)

7. (Currently Amended) A concrete recycling machine as recited in ~~claim 1~~ claim 4, wherein at least one of duration and frequency with which said motor drives the agitation device is selected from predetermined values based on the load.

8. A concrete recycling machine as recited in claim 7, wherein the predetermined values are stored in a data look-up table.

9-20. (Cancelled)

21. (New) A concrete recycling machine as recited in claim 4, wherein said control system also controls the duration that said motor drives the agitation device based on the load.

22. (New) A concrete recycling machine as recited in claim 21, wherein both the duration and frequency with which said motor drives the agitation device are selected from predetermined values based on the load.

23. (New) A concrete recycling machine as recited in claim 22, wherein the predetermined values are stored in a data look-up table.

24. (New) A concrete recycling machine as recited in claim 4, wherein said control system further determines whether the load exceeds an overload threshold, and signals an overload status the load exceeds the overload threshold.

25. (New) A method as recited in claim 24, wherein said control system illuminates an overload status light at a control or maintenance center when signaling the overload status.

26. (New) A method as recited in claim 24, wherein said control system automatically notifies a control or maintenance center when signaling the overload status.

27. (New) A concrete recycling machine as recited in claim 3, wherein the agitation device is a rotatable agitation device.

28. (New) A concrete recycling machine as recited in claim 3, wherein at least one of duration and frequency with which said motor drives the agitation device is selected from predetermined values based on the load.

29. (New) A concrete recycling machine as recited in claim 28, wherein the predetermined values are stored in a data look-up table.

30. (New) A concrete recycling machine as recited in claim 3, wherein said control system further determines whether the load exceeds an overload threshold, and signals an overload status the load exceeds the overload threshold.

31. (New) A method as recited in claim 30, wherein said control system illuminates an overload status light at a control or maintenance center when signaling the overload status.

32. (New) A method as recited in claim 30, wherein said control system automatically notifies a control or maintenance center when signaling the overload status.